Recombinant Human 26S proteasome non-ATPase regulatory subunit 10(PSMD10)

Catalog No: #AP70675

Package Size: #AP70675-1 20ug #AP70675-2 100ug #AP70675-3 1mg

Signalway Antibody
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Description

Product Name	Recombinant Human 26S proteasome non-ATPase regulatory subunit 10(PSMD10)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-226aaSequence Info:Full Length
Other Names	26S proteasome regulatory subunit p28Gankyrinp28(GANK)
Accession No.	O75832
Calculated MW	40.4 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MEGCVSNLMVCNLAYSGKLEELKESILADKSLATRTDQDSRTALHWACSAGHTEIVEFLLQLGVPVNDKDDAG WSPLHIAASAGRDEIVKALLGKGAQVNAVNQNGCTPLHYAASKNRHEIAVMLLEGGANPDAKDHYEATAMHR AAAKGNLKMIHILLYYKASTNIQDTEGNTPLHLACDEERVEEAKLLVSQGASIYIENKEEKTPLQVAKGGLGLILK RMVEG
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Acts as a chaperone during the assbly of the 26S proteasome, specifically of the PA700,19S regulatory complex (RC). In the initial step of the base subcomplex assbly is part of an intermediate PSMD10:PSMC4:PSMC5:PAAF1 module which probably assbles with a PSMD5:PSMC2:PSMC1:PSMD2 module. Independently of the proteasome, regulates EGF-induced AKT activation through inhibition of the RHOA,ROCK,PTEN pahway, leading to prolonged AKT activation. Plays an important role in RAS-induced tumorigenesis.Acts as an proto-oncoprotein by being involved in negative regulation of tumor suppressors RB1 and p53,TP53. Overexpression is leading to phosphorylation of RB1 and proteasomal degradation of RB1. Regulates CDK4-mediated phosphorylation of RB1 by competing with CDKN2A for binding with CDK4. Facilitates binding of MDM2 to p53,TP53 and the mono- and polyubiquitination of p53,TP53 by MDM2 suggesting a function in targeting the TP53:MDM2 complex to the 26S proteasome. Involved in p53-independent apoptosis. Involved in regulation of NF-kappa-B by retaining it in the cytoplasm. Binds to the NF-kappa-B component RELA and accelerates its XPO1,CRM1-mediated nuclear export.

References

"Initial characterization of the human central proteome."Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuemmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) Research Topic:Cancer

Note: This product is for in vitro research use only and is not intended for use in humans or animals.